What is claimed is:

1. An apparatus for detecting an external optical disk drive's open/closed status, comprising:

an upper housing;

a cover, disposed above the upper housing, wherein a convex portion is disposed at the front edge of cover with a hook hole therein;

a solenoid valve sub-assembly, fixed under the bottom face of the upper housing;

a solenoid valve base, comprising a body, a connection part disposed on a side of the body, and a spring support disposed on the other side of the body, wherein a space is located between the connection part and the spring support;

a solenoid valve, fixed at the bottom of the solenoid valve base;

a hook device, engaged with the connection part of the solenoid valve base;

a torsion spring, disposed at the spring support of the solenoid valve base;

an elastic plate, disposed within the space of the solenoid valve base;

a lower housing, with a motherboard disposed thereon, combined in assembly with the upper housing, to contain and protect the motherboard and the solenoid sub-assembly therein; and

two wires, wherein one end of each wire is connected to the torsion spring and the elastic plate

respectively, and the other end is electrically connected to the motherboard;

wherein, when the cover is closed, the convex portion located at the front edge of the cover presses on the torsion spring, and the torsion spring contacts the elastic plate, resulting in an electrically conductive state; when the cover is opened, the torsion spring is released, and the torsion spring disengages from the elastic plate, disconnecting the circuit.

2. The apparatus for detecting an external optical disk drive's open/closed status of claim 1, further comprising a hinge, disposed at the back edge of the upper housing.

3. The apparatus for detecting an external optical disk drive's open/closed status of claim 2, wherein the cover pivots on the hinge of the upper housing to open and close.

4. The apparatus for detecting an external optical disk drive's open/closed status of claim 1, wherein the solenoid valve further comprises a retractable shaft.

5. The apparatus for detecting an external optical disk drive's open/closed status of claim 4, wherein the hook device includes a shaft, a leg, and a hook, and the shaft is hinged at the connection part of the solenoid valve base, and the leg is engaged with the retractable shaft of the solenoid valve.